

Amendments to the Claims

This listing replaces all prior versions and listings of claims in the application.

Listing of Claims

1-113. (Canceled)

114. (Currently Amended) A blend comprising a first PHA and a second PHA,

wherein:

the first PHA is a copolymer consisting of~~having~~ a comonomer I-A and a comonomer I-B and the second PHA is a copolymer consisting of~~having~~ a comonomer 2-A and a comonomer 2-B;

the first PHA copolymer and the second PHA copolymer are the same copolymer, in which the ratio of comonomer I-A:comonomer I-B in the first PHA is different from the ratio of comonomer 2-A:comonomer 2-B in the second PHA.

115. (Previously Presented) The blend of Claim 114, wherein comonomer I-A and comonomer 2-A are both 3-hydroxybutyrate.

116. (Previously Presented) The blend of Claim 115, wherein comonomer I-B and comonomer 2-B both are 3-hydroxypropionate, 4-hydroxybutyrate, 3-hydroxyhexanoate, or 3-hydroxyoctanoate, 3-hydroxypropionate, 6-hydroxyhexanoate, 3-hydroxydecanoate, 3-hydroxydodecanoate, or 3-hydroxydodecenoate.

117. (Previously Presented) The blend of Claim 116, wherein comonomer I-B and comonomer 2-B both are 4-hydroxybutyrate.

118. (Previously Presented) The blend of Claim 114 additionally comprising a third PHA.

119. (Previously Presented) The blend of Claim 114, wherein when the first PHA and the second PHA are blended and the blend is molded, the blend has a deformation angle tolerance of at least about 5°.
120. (Previously Presented) The blend of Claim 114, wherein when the first PHA and the second PHA are blended and the blend is molded, the blend has a thermal deformation resistance temperature of at least 80°C.
121. (Previously Presented) The blend of Claim 114, wherein the first PHA has a first glass transition temperature and the second PHA has a second glass transition, wherein the difference between the first and second glass transition temperature is at least about 1°C.
122. (Previously Presented) An article comprising at least about 1 percent by weight of the PHA blend of Claim 114.
123. (Withdrawn-Currently Amended) A method of preparing the PHA blend of Claim 114, ~~wherein the method comprising~~comprising blending the first PHA with the second PHA.
124. (Withdrawn-Currently Amended) The method of Claim 123, wherein the blending ~~of the first and second PHAs~~ is by solvent blending, emulsion blending or melt blending.
125. (Withdrawn-Currently Amended) The method of Claim 123[[124]], wherein the PHA blending is ~~by prepared using~~ solvent blending.
126. (Withdrawn-Currently Amended) The method of Claim 125, wherein the solvent blending comprises:
- (i) ~~the PHA components are dissolving~~the first PHA and the second PHA in a solvent or solvent mixture;[[,]] ~~or the PHA components are dissolving~~the first PHA and the second PHA separately in a solvent or solvent mixture and combining to form a blended PHA solution containing at most about 50 weight percent of the first PHA and the second PHA components;

- (ii) applying the PHA solution ~~is applied~~ to a surface to form a PHA blend solution layer on the surface; and
- (iii) removing some or all of the solvent ~~is removed~~ to form a PHA blend layer on the surface.

127. (Withdrawn-Currently Amended) A method of making the article of Claim 122, ~~wherein the method~~ comprising [[es]] molding the PHA blend.
128. (Currently Amended) A blend comprising a first PHA and a second PHA, wherein:
the first PHA is a poly(3-hydroxybutyrate) homopolymer; and the second PHA is a copolymer having a first and a second comonomer,
wherein the first co-monomer is 3-hydroxybutyrate and the second comonomer is 4-hydroxybutyrate and the first PHA and the second PHA are miscible or partially miscible.
129. (Previously Presented) The blend of Claim 128, wherein the copolymer has at most about 3 weight percent, or at most about 15 weight percent of one comonomer.
130. (Currently Amended) The blend of Claim 128, wherein the blend comprises poly 3-hydroxybutyrate blended with poly 3-hydroxybutyrate-co-11 wt%-4-hydroxybutyrate; or poly 3-hydroxybutyrate blended with poly 3-hydroxybutyrate-co-33 wt%-4-hydroxybutyrate.
131. (Currently Amended) The blend of Claim 130, wherein the blend comprises at most about 20 wt% poly 3-hydroxybutyrate.
132. (Currently Amended) The blend of Claim 130, wherein the blend comprises at most about 60 wt% poly 3-hydroxybutyrate.
133. (Previously Presented) The blend of Claim 128 additionally comprising a third PHA.

134. (Previously Presented) The blend of Claim 128, wherein when the first PHA and the second PHA are blended and the blend is molded, the blend has a deformation angle tolerance of at least about 5°.
135. (Previously Presented) The blend of Claim 128, wherein the first PHA and the second PHA are blended and the blend is molded, the blend has a thermal deformation resistance temperature of at least 80°C.
136. (Previously Presented) An article comprising at least about 1 percent by weight of the PHA blend of Claim 128.
137. (Withdrawn-Currently Amended) A method of preparing the PHA blend of Claim 128, ~~wherein the method~~ comprising blending the first PHA with the second PHA.
138. (Withdrawn-Currently Amended) The method of Claim 137[[128]], wherein the blending of the first PHS, and the second PHAs is by solvent blending, emulsion blending or melt blending.
139. (Withdrawn-Currently Amended) The method of Claim 137[[138]], wherein the [[PHA]]blending is ~~by prepared using~~ solvent blending.
140. (Withdrawn-Currently Amended) The method of Claim 137, wherein the blending comprises:
- (i) dissolving the first PHA and the second PHA~~components are dissolved~~ in a solvent or solvent mixture; [[,]] or dissolving the first [[the]]PHA and the second PHA ~~components are dissolved~~ separately in a solvent or solvent mixture; and combining[[ed]] to form a blended PHA solution containing at most about 50 weight percent of the first PHA and the second PHA~~components~~;
 - (ii) applying the PHA solution ~~is applied~~ to a surface to form a PHA blend solution layer on the surface; and

(iii) removing some or all of the solvent ~~is removed~~ to form a PHA blend layer on the surface.

141. (Withdrawn-Currently Amended) A method of making the article of Claim 140, ~~wherein~~
~~the method~~ comprising ing[[es]] molding the PHA blend.

142. (NEW) The blend of Claim 128, wherein the first PHA and the second PHA are miscible.

143. (NEW) The blend of Claim 128, wherein the first PHA and the second PHA are partially miscible.